ABSTRACT OF THE DISCLOSURE

2	A power redundant power system and a method for controlling the
3	power system are presented, wherein the power system is composed of at least
4	one inverter for supplying AC power to a load through a bus, a phase lock system
5	to synchronize all output voltages of the inverters and a current sharing circuit to
6	properly distribute the load current among all inverters. Each inverter is
7	controlled by an unbalanced power to limit the increase of its cross current.
8	Moreover, the information related to DC bus voltage is further applied to control
9	the inverters, whereby the cross current is mitigated and entire power system is
10	operated steadily.